

REVIEW OF PUBLICATIONS

1. Review publications and modifications.
Check DA Pam 310-1 for current publications and applicable modification work orders (MWO). If applicable MWO is published, refer to DA Pam 738-750 for further actions.

2. Review organizational maintenance manual.
Review operator and organizational maintenance manual for your model of power supply and organizational maintenance instructions.

INSPECTION

The following instructions are provided to help meet serviceability requirements during organizational maintenance and should be performed before, during, and after maintenance or whenever needed.

3. Perform external inspection (Figure 1).
 - a. Unscrew captive screws on each side of front panel cover, raise the cover, and lay it back on the top cover.

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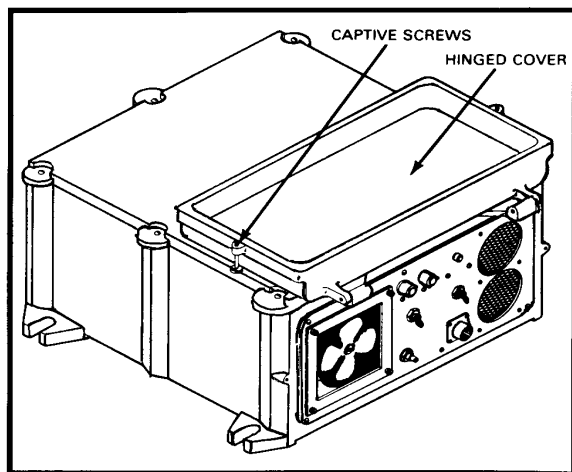


Figure 1. Power supply front cover

- b. Become familiar with the operator control panel of the appropriate model power supply (PP-2953(*)/U) (Figure 2).
- c. Set POWER ON-OFF or AC/DC ON-OFF switches to OFF.
- d. Disconnect power cable from AC power source.
- e. Inspect cables for chafed, cracked, or frayed insulation. Replace cables if necessary.
- f. Inspect plugs, jacks, and battery connections. Tighten and clean them if necessary.

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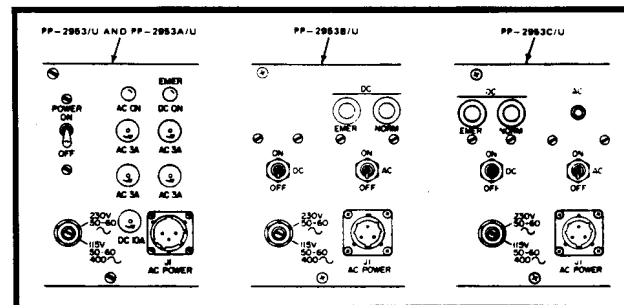


Figure 2. Operator Control Panels

- g. Inspect outside surfaces for dirt, rust, or corrosion. If necessary, clean surfaces as follows:

WARNING
CLEANING COMPOUND IS FLAMMABLE, AND ITS FUMES ARE TOXIC. PROVIDE ADEQUATE VENTILATION, AND DO NOT USE NEAR FLAMES OR EXTREME HEAT.

- (1) Using an air jet, blow dust and loose dirt from exterior surfaces.
- (2) Remove ground-in dirt or grease by using a lint-free cloth dampened (not wet) with cleaning compound (NSN 7930-00-394-9542).
- (3) Remove loose dirt and dust from cable assemblies, switches, front panel indicators, and lens and control knobs. Use an air jet or a soft, clean cloth.

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- (4) For stubborn ground-in dirt, prepare a bath solution consisting of 2 ounces of mild detergent to 1 gallon of water. Scrub dirty areas until clean. Use a soft-bristled nonmetallic brush to apply solution into holes and recesses.
- (5) Rinse the cleaned areas with clean water.
Do not flood areas and allow to dry.

4. Inspect blower and fan (Figure 3).

- a. Remove top cover and fan screen.

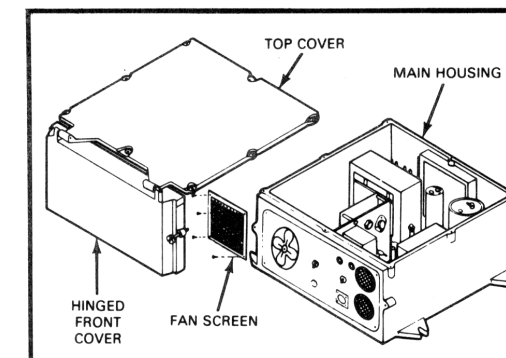


Figure 3. Top cover and fan screen.

- b. Inspect fan and screen. Remove dirt and dust.
- c. Inspect fan for free rotation. Lubricate lightly if required.

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5. Perform internal inspection.
Inspect internal surfaces for dirt, rust, and corrosion. Clean as appropriate.

DC VOLTAGE CHECK

6. Perform initial procedure (Figure 4).
 - a. Reconnect AC power cable to AC power source.
 - b. Turn 230V 50-60 cycle/115V 50-60 cycle switch to the appropriate voltage setting.
 - c. Set multimeter to measure 24 volts DC or more.

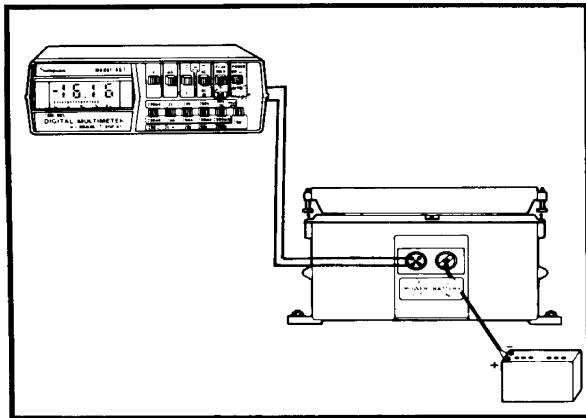


Figure 4. DC output voltage check.

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- d. Connect multimeter leads to jack (J3) pin A negative and pin B positive.
- e. Set power switches to ON.
- f. Multimeter should indicate between 22 and 30 volts DC.

7. Adjust voltage.
If indication is **not** between 22 and 30 volts DC, perform output voltage adjustment (Figure 5).

- a. Loosen locknut on R11.
- b. Rotate R11 in either direction until multimeter indicates 24.5 volts DC.
- c. Tighten locknut to ensure R11 shaft does **not** rotate.

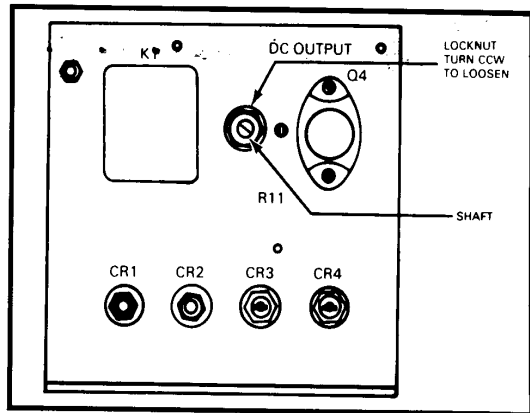


Figure 5. Voltage adjustment.

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- d. Set power switches to OFF.
- e. Disconnect test equipment.
- f. Reinstall top cover and front cover.
- g. Connect DC output cable to jack (J3).
- h. Verify installation.

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☆GPO: 1991 0 - 303-155



**PERFORM UNIT-LEVEL
PMCS ON POWER SUPPLY
PP-2953(*)/U**

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